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Enter terms
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[Reset](#) Sort By: Close Date (descending)

- [Relevancy \(descending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(ascending\)](#)
- [Release Date \(descending\)](#)

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Displaying 21 - 30 of 65 results

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[1. 14.2-NH1 : Device to Address the Competing Needs of Ensuring Lockability of Seat Belts and Mitigating Entrapment Risk in Mis-Use Conditions](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

The Federal Motor Vehicle Safety Standard (FMVSS) No. 208, "Occupant crash protection," requires that passenger seating positions of passenger cars and some other passenger vehicles have a seat belt assembly whose lap belt portion is lockable so that the seat belt assembly can be used to tightly secure a child restraint system. FMVSS No. 208 further specifies that the means to lo ...

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[2. 14.2-OS1: Using alternative energy to reduce greenhouse gas production in the transportation sector](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

The surface transportation sector is one of the largest contributors to the production of greenhouse gases. The USDOT's Zero Emission Transportation Initiative is looking to push the transportation sector greenhouse gas production to zero by 2050. Alternative energy sources used to power vehicles have the potential to significantly reduce vehicular production of greenhouse gases.& ...

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[3. 14.2-PH1: Develop and demonstrate new non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Pipeline and Hazardous Materials Safety Administration The energy transportation network of the U.S. consists of over 2.6million miles of pipelines. That's enough to circle the earth about 100 times. These pipelines are operated by approximately 3,000 companies, large and small. U.S. operators transport almost two-thirds of the Nation's energy. According to the U.S. Energy Informati ...

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[4. 14.1-FH5 : Visually unobtrusive traffic monitoring for National Park Service Parkways](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

The mission of the National Park Service (NPS) is to preserve unimpaired the natural and cultural resources and values of the national park system. However, the NPS road network, especially in urban areas is facing congestion issues like those seen around the country. State Departments of Transportation are applying operational strategies to help manage this increasing concern which can be a ...

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5. [14.1-FR1: Lightweight, Portable System for Mid-Chord Offset Measurement of Railroad Rails](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

A common measurement for quantifying aspects of railroad track geometry is the mid-chord offset (MCO). MCO measurements enable railroads to maintain their track to safe standards that comply with federal regulations. In order to obtain MCO measurements, railroad personnel (as well as federal and state inspectors) use string line measurements to measure right and left rail deviations in ...

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6. [14.1-FR3: Easy Access to Freight Locomotives](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Engineers, Conductors and Brakemen enter and exit from Freight Locomotives several times per trip in the course of the workday. This entails walking on ballast on a slope. Steps allow the worker to climb up to the first step and the remaining steps to the platform., walk towards the cab entry door. Often the step up is in conjunction with the locomotive movement at slow speeds. This is "risky&rd ...

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7. [14.1-FH1: Development of Prestressed Concrete Nondestructive Evaluation \(NDE\) Inspection Procedures](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Approximately 66% of existing concrete bridges consist of prestressed concrete components (calculated by deck area). Prestressed concrete is constructed using either pre tensioned or post tensioned steel tendons as tensile reinforcement. Similar to traditional reinforcement (rebar), these tendons experience degradation due to corrosion and carbonation. However, unlike typical str ...

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8. [14.1-FH2: Personalized Driving Data for Insurance Discounts & Public Benefits](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Traditional car insurance rates vary little, if at all, based on mileage and observed driving safety, even though they clearly and directly relate to crashes and claims, and charging based on actual risk exposure would improve safety and the environment, reduce energy use, and lessen crash-caused congestion. Brookings Institution research shows that pay-as-

you-drive insurance (PAYDI) would lead to ...

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9. [14.1-FH3: Suppressing Utility Problems- Protection via Robotic Engineering to the Sub-Surface](#)

Release Date: 02-04-2014Open Date: 02-04-2014Due Date: 04-04-2014Close Date: 04-04-2014

Poles supporting overhead utilities in the right-of-way represent a significant safety hazard for drivers and occupants of vehicles. While other hazards exist on the roadside, vehicles that crash into these utility poles typically suffer serious damage and increase the risk of serious injury or death for the occupants. Over 1,000 fatalities each year are attributed to crashes involving ...

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10. [14.1-FH4: STEM Education- Increasing awareness about Intelligent Transportation Systems and Connected Vehicle Technologies for High School Students](#)

Release Date: 02-04-2014Open Date: 02-04-2014Due Date: 04-04-2014Close Date: 04-04-2014

This topic exposes students to real world transportation problems to demonstrate how transportation planners, technicians and engineers contribute to solving our nation's environmental and livability challenges. A recent report noted that nearly 60 percent of the nation's students who begin high school interested in science, technology, engineering, and math (STEM) chang ...

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- [First](#)
- [Previous](#)
- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [Next](#)
- [Last](#)

```
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